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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/808,297	03/25/2004	Naoki Hasegawa	20-136	5496	
7:	7590 01/23/2006		EXAMINER		
Arnold Intern	Arnold International			SMITH, PHILIP ROBERT	
P.O. BOX 129			ART UNIT		
Great Falls, V	Great Falls, VA 22066			PAPER NUMBER	
			3739		
			DATE MAIL ED. 01/03/200	•	

DATE MAILED: 01/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	:	. :	E)
	Application No.	Applicant(s)	
	10/808,297	HASEGAWA, NA	OKI
Office Action Summary	Examiner	Art Unit	
	Philip R. Smith	3739	
The MAILING DATE of this commun Period for Reply	ication appears on the cover sheet w	ith the correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNI - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this community of the period for reply specified above, the maximum states of the period for reply is specified above, the maximum states of the period for reply within the set or extended period for reply Any reply received by the Office later than three months a earned patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no event, however, may a nunication. 0) days, a reply within the statutory minimum of thir atutory period will apply and will expire SIX (6) MON will, by statute, cause the application to become Al	reply be timely filed ty (30) days will be considered time NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).	
Status	. :	; ;	
1) Responsive to communication(s) file	ed on 01 December 2005.		
.—	2b)⊠ This action is non-final.	: ;	
3) Since this application is in condition	/—	ters, prosecution as to th	e merits is
closed in accordance with the practi	ce under <i>Ex parte Quayle</i> , 1935 C.E). 11, 453 O.G. 213.	. •
Disposition of Claims			
4) Claim(s) 1-13 is/are pending in the a	•	ion	
4a) Of the above claim(s) <u>2-6 and 8-</u>	13 Is/are withdrawn from considerati	ion.	
5) Claim(s) is/are allowed.	·	:	
6) Claim(s) 1 and 7 is/are rejected.			
7) Claim(s) is/are objected to.	ation and/or alaction requirement		, •
8) Claim(s) are subject to restric	ction and/or election requirement.		
Application Papers			
9) The specification is objected to by the	e Examiner.	X-	
10)⊠ The drawing(s) filed on <u>25 March 20</u>	<u>04</u> is/are: a) $ \Box $ accepted or b) $ ⊠ $ ob	jected to by the Examine	er.
Applicant may not request that any obje	ction to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including	the correction is required if the drawing	(s) is objected to. See 37 C	FR 1.121(d).
11) The oath or declaration is objected to	by the Examiner. Note the attache	d Office Action or form P	TO-152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim a)⊠ All b)□ Some * c)□ None of:		§ 119(a)-(d) or (f).	
•	documents have been received.		
	documents have been received in A	•	
	of the priority documents have been	received in this Nationa	I Stage
• •	onal Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action	on for a list of the certified copies not	received.	
	. 11	:	
Attachment(s)		O	
 Notice of References Cited (PTO-892) Description Notice of Draftsperson's Patent Drawing Review (F 		Summary (PTO-413) s)/Mail Date	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

6) Other: ____.

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Restrictions

[01] Claims 2-6 & 8-13 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected group, as per the response of 12/1/2005 to the election requirement of 11/3/2005.

Drawings

- [02] The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "chief ray corresponding to the largest half-field angle" and the "half-field angle of a ray incident onto the image pickup surface" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.
- [03] Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended.

 The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top

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margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112, Paragraph One

[04] The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- [05] Claims 1 & 7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
- [06] Applicant recites that:
 - [06a] wy' is the angle at which the chief ray corresponding to the largest half-field angle is incident onto the image pickup surface;
 - [06b] wy is the half-field angle of a ray incident onto the image pickup surface.
- [07] It is unclear to a skilled artisan how to measure these quantities. Presumably, the image pickup surface has a half-field angle inherently defined by the largest angle incident upon it (wy), as measured from the optical axis. If the chief ray

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"corresponds" to this angle, then presumably they are equal, and the condition recited in the claim appears to be always true: $0.9 \le 1 \le 1.1$.

Claim Rejections - 35 U.S.C. 112, Paragraph Two

[08] The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

[09] Claims 1 & 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. They are indefinite because they are not adequately described in the specification and figures, as noted above.

Allowable Subject Matter

- [10] Claims 1 & 7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action. The following is the examiner's statement of reasons for allowance.
- [11] No prior art could be found which related the diameter of the opening of the aperture stop ("Φ₁"), the largest outer diameter of the objective optical system ("Φ₂"), and the focal length of the front lens unit ("*f*1") in the manner prescribed by the second condition in claim 1. No prior art could be found which disclosed specific values for Φ₁, Φ₂, and *f*₁ such that the second condition in claim 1 would be satisfied.

Conclusion

[12] The prior art made of record and not relied upon is considered pertinent to

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applicant's disclosure. Bertele (2,730,016), Taylor (4,189,211), Shikama (5,644,435), Shibayama (5,717,527), Sato (5,930,051) disclose a pair of lens groups separated by an aperture stop. Tsuyuki (6,069,651) & Yoshino (2005/0054901) disclose endoscopes with a pair of lens groups separated by an aperture stop.

- [13] Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip R. Smith whose telephone number is (571) 272 6087 and whose email address is philip.smith@uspto.gov. The examiner can normally be reached between 9:00am and 5:00pm.
- [14] If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda Dvorak can be reached on (571) 272 4764.
- [15] Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may-be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

[16] Prs

John P. Letzbecker Primary Examiner